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questions and answers with  
plenty of screenshots. Book  
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Interfacing, AVR ATmega32,  
Interfacing of Input/Output  
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answers which are asked  
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diagrams are used to illustrate

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*Microprocessors &  
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- Atul P. Godse 2020-12-01

The book is written for an  
undergraduate course on the  
8085 and 8086

microprocessors and 8051  
microcontroller. It provides  
comprehensive coverage of the  
hardware and software aspects  
of 8085 and 8086

microprocessors and 8051  
microcontroller. The book uses  
plain and lucid language to  
explain each topic. A large  
number of programming  
examples is the feature of this  
book. The book provides the  
logical method of describing  
the various complicated  
concepts and stepwise

techniques for easy  
understanding, making the  
subject more interesting. The  
book is divided into three  
parts. The first part focuses on  
the 8085 microprocessor. It  
teaches you the 8085  
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bus organization, instruction  
set, addressing modes,  
instruction formats, Assembly  
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instruction timing diagrams,  
interrupts and interfacing 8085  
with support chips, memory  
and peripheral ICs - 8251,  
8253, 8255, 8259 and 8279. It  
also explains the interfacing of  
8085 with data converters -  
ADC and DAC- and introduces  
a temperature control system  
design. The second part  
focuses on the 8086  
microprocessor. It teaches you  
the 8086 architecture, register  
organization, memory  
segmentation, interrupts,  
addressing modes, operating  
modes - minimum and  
maximum modes, interfacing  
8086 with support chips,  
minimum and maximum mode  
8086 systems and timings. The  
third part focuses on the 8051

microcontroller. It teaches you the 8051 architecture, pin description, instruction set, programming 8051 and interfacing 8051 with external memory. It explains timers/counters, serial port, interrupts of 8051 and their programming. It also describes the interfacing 8051 with keyboards, LCDs and LEDs and explains the control of servomotor, stepper motors and washing machine using 8051.

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*The 8085 Microprocessor* - K.  
Udaya Kumar 2008

Designed for an undergraduate  
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provides comprehensive  
coverage of the programming  
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Microprocessor, its programming and interfacing. The book contains the description, mainly of the 8-bit programmable Interrupt Interval Timer/Counter 8253, Programmable communication Interface 8251, USART 8251A and INTEL 8212/8155/8256/8755 and 8279.

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**Microprocessor and  
Interfacing** - Atul P. Godse  
2021-01-01

The book is written for an

undergraduate course on the 8085 microprocessor. It provides comprehensive coverage of the hardware and software aspects of the 8085 microprocessor, and it introduces advanced processors from Intel family. The book teaches you the 8085 architecture, instruction set, machine cycles and timing diagrams, Assembly Language Programming (ALP), interrupts, interfacing 8085 with support chips, memory, and peripheral ICs - 8251, 8253, 8255, 8259, and 8237. It also explains the interfacing of 8085 with keyboard, display, data converters - ADC and DAC and introduces a temperature control system, stepper motor control system, and data acquisition system design. The book also explains the architecture, programming model, memory segmentation, addressing modes, pin description of Intel 8086 microprocessor, and features of Intel 80186, 80286, 80386, and 80486 processors.

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**Microprocessors and Microcontrollers** - Atul P. Godse 2020-12-01

The book is written for an undergraduate course on the 8085 microprocessor and 8051 microcontroller. It provides comprehensive coverage of the hardware and software aspects of 8085 microprocessor and 8051 microcontroller. The book is divided into two parts. The first part focuses on 8085 microprocessor. It teaches you the 8085 architecture,

instruction set, Assembly Language Programming (ALP), interfacing 8085 with support chips, memory and peripheral ICs - 8251, 8253, 8255, 8259, 8237 and 8279. It also explains the interfacing of 8085 with data converters - ADC and DAC - and introduces a temperature control system and data acquisition system design. The second part focuses on 8051 microcontroller. It teaches you the 8051 architecture, instruction set, programming 8051 with ALP and C and interfacing 8051 with external memory. It also explains timers/counters, serial port and interrupts of 8051 and their programming in ALP and C. It also covers the interfacing 8051 with data converters - ADC and DAC, keyboards, LCDs, LEDs, stepper motors, servo motors and introduces the washing machine control system design.

*Electronic Measurements and Instrumentation* - RK Rajput 2009

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Microcontrollers" (Chapter-13)

and "Universities Questions  
(Latest) with Solutions"  
(Chapter-14) have been added  
to make the book still more  
useful to the readers.